

SEQUENCE LISTING

<110> BERENS, STEPHAN
KALINOWSKI, JORN
PUHLER, ALFRED

<120> CORYNEBACTERIUM GLUTAMICUM STRAIN WITH ENHANCED SECRETION ACTIVITY

<130> MAS/21123/280248

<140> 09/852,053
<141> 2001-05-10

<150> EPO 00110021.3
<151> 2000-05-12

<160> 24

<170> PatentIn Ver. 2.1

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<222> (34)..(1944)
<223> secD
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 35 40 45
 Asp Leu Gln Gly Gly Thr Arg Val Thr Leu Val Pro Gln Gly Gln Asp
 50 55 60
 Pro Thr Gln Asp Gln Leu Asn Gln Ala Arg Thr Ile Leu Glu Asn Arg
 65 70 75 80
 Val Asn Gly Met Gly Val Ser Gly Ala Ser Val Val Ala Asp Gly Asn
 85 90 95
 Thr Leu Val Ile Thr Val Pro Gly Glu Asn Thr Ala Gln Ala Gln Ser
 100 105 110
 Leu Gly Gln Thr Ser Gln Leu Leu Phe Arg Pro Val Gly Gln Ala Gly
 115 120 125
 Met Pro Asp Met Thr Thr Leu Met Pro Glu Leu Glu Glu Met Ala Asn
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 Arg Trp Val Glu Tyr Gly Val Ile Thr Glu Glu Gln Ala Asn Ala Ser
 145 150 155 160
 Leu Glu Glu Met Asn Thr Ala Val Ala Ser Thr Thr Ala Val Glu Gly
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 Glu Glu Ala Thr Glu Pro Glu Pro Val Thr Val Ser Ala Thr Pro Met
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 Asp Glu Pro Ala Asn Ser Ile Glu Ala Thr Gln Arg Arg Gln Glu Ile
 195 200 205
 Thr Asp Met Leu Arg Thr Asp Arg Gln Ser Thr Asp Pro Thr Val Gln
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 Ile Ala Ala Ser Ser Leu Met Gln Cys Thr Thr Asp Glu Met Asp Pro
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 245 250 255
 Ala Val Gly Gly Val Tyr Val Leu Asp Pro Ala Pro Leu Leu Asn Gly
 260 265 270
 Glu Thr Asp Glu Glu Asn Gly Ala Arg Leu Thr Gly Asn Glu Ile Asp
 275 280 285
 Thr Asn Arg Pro Ile Thr Gly Gly Phe Asn Ala Gln Ser Gly Gln Met
 290 295 300

Glu Ile Ser Phe Ala Phe Lys Ser Gly Asp Gly Glu Glu Gly Ser Ala
305 310 315 320

Thr Trp Ser Ser Leu Thr Ser Gln Tyr Leu Gln Gln Gln Ile Ala Ile
325 330 335

Thr Leu Asp Ser Gln Val Ile Ser Ala Pro Val Ile Gln Ser Ala Thr
340 345 350

Pro Val Gly Ser Ala Thr Ser Ile Thr Gly Asp Phe Thr Gln Thr Glu
355 360 365

Ala Gln Asp Leu Ala Asn Asn Leu Arg Tyr Gly Ala Leu Pro Leu Ser
370 375 380

Phe Ala Gly Glu Asn Gly Glu Arg Gly Gly Thr Thr Thr Thr Val Pro
385 390 395 400

Pro Ser Leu Gly Ala Ala Ser Leu Lys Ala Gly Leu Ile Ala Gly Ile
405 410 415

Val Gly Ile Ala Leu Val Ala Ile Phe Val Phe Ala Tyr Tyr Arg Val
420 425 430

Phe Gly Phe Val Ser Leu Phe Thr Leu Phe Ala Ala Gly Val Leu Val
435 440 445

Tyr Gly Leu Leu Val Leu Leu Gly Arg Trp Ile Gly Tyr Ser Leu Asp
450 455 460

Leu Ala Gly Ile Ala Gly Leu Ile Ile Gly Ile Gly Thr Thr Ala Asp
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Ser Phe Val Val Phe Tyr Glu Arg Ile Lys Asp Glu Ile Arg Glu Gly
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Arg Ser Phe Arg Ser Ala Val Pro Arg Ala Trp Glu Ser Ala Lys Arg
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Thr Ile Val Thr Gly Asn Met Val Thr Leu Leu Gly Ala Ile Val Ile
515 520 525

Tyr Leu Leu Ala Val Gly Glu Val Lys Gly Phe Ala Phe Thr Leu Gly
530 535 540

Leu Thr Thr Val Phe Asp Leu Val Val Thr Phe Leu Ile Thr Ala Pro
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Asn Gly Met Gly Arg Val Met Lys Leu Val Glu Glu Arg Arg Ala Asn
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Gly Glu Leu Asp Glu Pro Glu Tyr Leu Lys Lys Ile His Ala Lys Asn
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 35 40 45

Leu Leu Val Ile Ser Ile Leu Phe Ile Ala Ile Arg Gly Phe Ser Leu
 50 55 60

Ser Ile Asp Phe Gln Gly Gly Thr Lys Met Ser Met Pro Ala Ser Asp
 65 70 75 80

Tyr Ser Thr Glu Gln Val Glu Glu Thr Phe Thr Glu Ala Thr Gly Ile
 85 90 95

Thr Pro Glu Ile Val Gln Ile Val Gly Ser Gly Asp Ala Arg Thr Leu
 100 105 110

Glu Ile Tyr Ser Glu Arg Leu Ser Asp Glu Asp Val Glu Lys Ala Arg
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Leu Ala Ile Tyr Glu Glu Tyr Gln Pro Leu Asn Ser Glu Gly Gln Pro
 130 135 140

Ser Pro Asp Ala Ile Gly Asn Ser Thr Val Ser Glu Ser Trp Gly Ser
 145 150 155 160

Thr Ile Thr Gln Arg Met Val Leu Ala Leu Ile Ala Phe Leu Val Ile
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Ala Ala Ile Tyr Ile Ala Phe Arg Leu Glu Arg Glu Met Ala Ile Ala
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Ala Met Ala Ala Leu Val Val Asp Gly Ile Val Ile Ala Gly Ile Tyr
 195 200 205

Ala Val Ile Gly Leu Glu Val Ser Pro Ala Thr Val Ile Gly Leu Leu
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Thr Val Leu Thr Phe Ser Ile Tyr Asp Thr Val Val Val Phe Asp Lys
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 275 280 285

Ala Val Trp Met Met Gly Val Gly Thr Leu Lys Asp Leu Ala Leu Ile
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Gln Leu Ile Gly Val Ile Glu Gly Thr Phe Ser Ser Val Phe Leu Ala
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Thr Pro Leu Leu Val Ser Leu Lys Asn Arg Leu Ser Lys Thr Lys Ala
 325 330 335

His Thr Ala Ser Val Met Lys Leu Arg Asp Gly Gln Ser Thr Leu Ile
 340 345 350

Asp Ala Thr Pro His Thr Asn Ala Asp Ala Ser Ala His Gly Thr Glu
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<220>
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